

SEQUENCE LISTING

<110> Proudfoot, Amanda
 Ajuebor, Maureen
 Swain, Mark

<120> CC-CHEMOKINE MUTANTS AGAINST LIVER DISEASES

<130> ARS-108

<140> US 10/540,234

<141> 2005-06-21

<150> EP 02102885.7

<151> 2002-12-23

<150> EP 03077237.0

<151> 2003-07-17

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 68

<212> PRT

<213> artificial sequence

<220>

<223> Triple 40's RANTES mutant

<400> 1

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Tyr | Ser | Ser | Asp | Thr | Thr | Pro | Cys | Cys | Phe | Ala | Tyr | Ile | Ala |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Pro | Leu | Pro | Arg | Ala | His | Ile | Lys | Glu | Tyr | Phe | Tyr | Thr | Ser | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Cys | Ser | Asn | Pro | Ala | Val | Val | Phe | Val | Thr | Ala | Ala | Asn | Ala | Gln |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Ala | Asn | Pro | Glu | Lys | Lys | Trp | Val | Arg | Glu | Tyr | Ile | Asn | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | |
|-----|-----|-----|-----|
| Leu | Glu | Met | Ser |
| 65 | | | |

<210> 2

<211> 70

<212> PRT

<213> artificial sequence

<220>

<223> Triple MIP-1alpha mutant

<400> 2

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Ala Ser Leu Ala Ala Asp Thr Pro Thr Ala Cys Cys Phe Ser Tyr Thr
1          5          10          15
Ser Ala Gln Ile Pro Gln Asn Phe Ile Ala Asp Tyr Phe Glu Thr Ser
          20          25          30
Ser Gln Cys Ser Lys Pro Gly Val Ile Phe Leu Thr Lys Ala Ser Ala
          35          40          45
Gln Val Cys Ala Asp Pro Ser Glu Glu Trp Val Gln Lys Tyr Val Ser
          50          55          60
Asp Leu Glu Leu Ser Ala
65          70

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<210> 3

<211> 69

<212> PRT

<213> artificial sequence

<220>

<223> Triple MIP-1beta mutant

<400> 3

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Ala Pro Met Gly Ser Asp Pro Pro Thr Ala Cys Cys Phe Ser Tyr Thr
1          5          10          15
Ala Arg Lys Leu Pro Arg Asn Phe Val Val Asp Tyr Tyr Glu Thr Ser
          20          25          30
Ser Leu Cys Ser Gln Pro Ala Val Val Phe Gln Thr Ala Ala Ser Ala
          35          40          45
Gln Val Cys Ala Asp Pro Ser Glu Ser Trp Val Gln Glu Tyr Val Tyr
          50          55          60
Asp Leu Glu Leu Asn
65

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